

**ENGINEERING TRIAL REPORT**  
**TRIAL DATA (DIESEL DRIVEN SHIPS AND SUBMARINES)**

REPORT CONTROL SYMBOL OPNAV 9094-1

SHIP (Name, type, number) U.S.S.						DATE OF TRIAL					
A. TYPE OF TRIAL (Indicate below)											
<input type="checkbox"/> FLEET TRAINING <input type="checkbox"/> PRE-OVERHAUL <input type="checkbox"/> POST-REPAIR <input type="checkbox"/> OTHER (SPECIFY) _____ <input type="checkbox"/> FULL POWER											
<input type="checkbox"/> ECONOMY <input type="checkbox"/> SURFACE <input type="checkbox"/> SNORKEL <input type="checkbox"/> OTHER (SPECIFY) _____ <input type="checkbox"/> SUBMERGED											
B. GENERAL	1. DRAFT	FORWARD (feet and inches)		AFT (feet and inches)		MEAN (feet and inches)		DISPLACEMENT (tons)			
	2. BOTTOM FOULING DATA	DAYS OUT OF DOCK		DAYS UNDERWAY SINCE LAST UNDOCKING		DAYS NOT UNDERWAY SINCE LAST UNDOCKING		TYPE OF BOTTOM PAINT			
	3. PROPELLERS	LOCATION	DIAMETER (ft-in)	PITCH (feet-inches)		NO. OF BLADES	TYPE				
		INBOARD							<input type="checkbox"/> FIXED PITCH		
		OUTBOARD							<input type="checkbox"/> CONTROLLABLE-REVERSIBLE (CRP)		
	4. WEATHER AND SEA CONDITIONS	WIND	ITEM		1ST HOUR	2ND HOUR	3RD HOUR	4TH HOUR	5TH HOUR	6TH HOUR	AVERAGE
			BAROMETER (inches Hg.)								
			AIR TEMPERATURE (dry bulb) (°F)								
			AIR TEMPERATURE (wet bulb) (°F)								
			SEA TEMPERATURE (injection) (°F)								
			FORCE, TRUE (kts)								
		SEA	RELATIVE DIRECTION, FROM (°)								
			STATE								
			RELATIVE DIRECTION, FROM (°)								
C. PLANT CONDITIONS (General)	1. POWER	REQUIRED	ENGINE SPEED, PROPELLER RPM OR PITCH, TOTAL KW PROPULSION GENERATORS OR BATTERY LOAD REQUIRED FOR TRIAL (specify which)								
		ACTUAL	ENGINE SPEED, PROPELLER RPM OR PITCH, TOTAL KW PROPULSION GENERATORS OR BATTERY LOAD ACTUALLY ATTAINED (specify which)								
	2. FUEL	FUEL CONSUMED, TOTAL (including housekeeping services) (Gals)									
		DISTILLING PLANTS IN USE	NUMBER								
			TYPE								
	3. FRESH WATER	TOTAL RATED CAPACITY OF DISTILLING PLANTS (Gals per day)									
		TOTAL WATER MADE BY DISTILLING PLANTS (Gals)									
	4. GENERATORS	S/S GENERATORS IN USE	NUMBER								
			RATING								
TOTAL AVERAGE LOAD (AC and DC) S/S GENERATORS (kw)											
5. BAT-TERIES	TOTAL AUXILIARY LOAD ON BATTERIES (Submarines only) (kw)										
6. INTER-VAL	INTERVAL READINGS WERE TAKEN DURING HOUR										

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ENGINE ROOM NUMBER			ENGINE NUMBERS		GENERATOR NUMBERS		MOTOR NUMBERS		
D. PLANT CONDITIONS <i>(detailed)</i>									
ITEM			1ST HOUR	2ND HOUR	3RD HOUR	4TH HOUR	5TH HOUR	6TH HOUR	AVERAGE
1. ENGINE	1.1 FUEL CONSUMPTION (Gals)	ENGINE NO.							
		ENGINE NO.							
	1.2 LUBE OIL CONSUMPTION (Gals)	ENGINE NO.							
		ENGINE NO.							
	1.3 ENGINE EXHAUST TEMPERATURE AVER. MAX. (°F)	ENGINE NO.							
		ENGINE NO.							
	1.4 LIMITING EXHAUST TEMPERATURE AVERAGE (°F)	ENGINE NO.							
		ENGINE NO.							
	1.5 BLOWER MANIFOLD PRESSURE (In. Hg.)	RATED	ENGINE NO.						
			ENGINE NO.						
		ACTUAL	ENGINE NO.						
			ENGINE NO.						
1.6 EXHAUST MANIFOLD BACK PRESSURE (PSIG) (In. H <sub>2</sub> O)	ENGINE NO.								
	ENGINE NO.								
1.7 WAS CYLINDER TO CYLINDER EXHAUST TEMP. DIFF. WITHIN PRES. LIMITS (If issued) "YES-Y" "NO-N"	ENGINE NO.								
	ENGINE NO.								
2. PROPULSION GENERATORS	2.1 VOLTAGE (Volts)	GEN. NO.							
		GEN. NO.							
	2.2 ARMATURE CURRENT (Amps)	GEN. NO.							
		GEN. NO.							
2.3 FIELD CURRENT (Amps)	GEN. NO.								
	GEN. NO.								
2.4 AIR TEMP. FROM COILS (°F)	GEN. NO.								
	GEN. NO.								
3. PROPULSION MOTORS	3.1 ARMATURE CURRENT (Amps)	MOTOR NO.							
		MOTOR NO.							
	3.2 FIELD CURRENT (Amps)	MOTOR NO.							
		MOTOR NO.							
3.3 AIR TEMP. FROM COILS (°F)	MOTOR NO.								
	MOTOR NO.								
4. SUBMARINE BATTERY	4.1 TOTAL CURRENT	CHARGE (Amps)							
		DISCHARGE (Amps)							
	4.2 CAPACITY	CHARGE (Amp Hrs)							
		DISCHARGE (Amp Hrs)							
4.3 VOLTAGE (Volts)									
5. MAIN BEARINGS	5.1 LUBE OIL TO PRESSURE (PSIG)	ENGINE NO.							
		ENGINE NO.							
	5.2 LUBE OIL TO TEMPERATURE (°F)	ENGINE NO.							
		ENGINE NO.							
	5.3 LOCATION OF HOTTEST BEARING	ENGINE NO.							
		ENGINE NO.							
	5.4 TEMPERATURE OF HOTTEST BEARING (°F)	ENGINE NO.							
		ENGINE NO.							
INTERVAL THAT READINGS WERE TAKEN DURING HOUR									

